

<110> Shi et al.

<120> TM4SF Receptor Polynucleotides, Polypeptides, and Antibodies

<130> PT056P1

<140> Unassigned

<141> 2001-10-10

<150> PCT/US01/11130

<151> 2001-04-05

<150> 60/195,336

<151> 2000-04-10

<160> 8

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1

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| aattcgaggg | tgcaccgtca | gtcttctctt | tcccccaaaa | acccaaggac | accctcatga | 120 |
| tctcccgga | tcctgaggtc | acatgcgtgg | tggtggacgt | aagccacgaa | gaccctgagg | 180 |
| tcaagttcaa | ctggtacgtg | gacggcgtgg | aggtgcataa | tgccaagaca | aagccgcggg | 240 |
| aggagcagta | caacagcacg | taccgtgtgg | tcagcgtcct | caccgtcctg | caccaggact | 300 |
| ggctgaatgg | caaggagtac | aagtgcagg | tctccaacaa | agccctccca | acccccatcg | 360 |
| agaaaaccat | ctccaaagcc | aaagggcagc | cccgagaacc | acaggtgtac | accctgcccc | 420 |
| catcccgga | tgagctgacc | aagaaccagg | tcagcctgac | ctgcctggtc | aaaggcttct | 480 |
| atccaagcga | catcgccgtg | gagtgaggaga | gcaatgggca | gccggagaac | aactacaaga | 540 |
| ccacgcctcc | cgtgctggac | tccgacggct | ccttcttctt | ctacagcaag | ctcaccgtgg | 600 |
| acaagagcag | gtggcagcag | gggaacgtct | tctcatgctc | cgtgatgcat | gaggctctgc | 660 |
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<212> DNA

<213> Homo sapiens

<400> 2

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| gtggagggcc | gatcccgcc | ccggctccgg | ttcccgggcc | ggcgggcggc | tgctcaccat | 120 |
| gccgggcaag | caccagcact | tccaggaacc | cgaggtcggc | tgctgcggga | aatacttctt | 180 |
| gtttggcttc | aacattgttt | tctgggtgct | gggagccctg | ttcctggcca | tcggcctctg | 240 |
| ggcctggggg | gagaagggtg | ttctctccaa | catctctgct | ctgaccgatc | tgggaggcct | 300 |
| cgaccctgtg | tggtgtttg | tagtggttgg | aggcgtcatg | tccgtgctgg | gctttgccgg | 360 |
| ctgcatcggg | gctctccggg | agaacacttt | cctgctcaag | tttttctcag | tgttccttgg | 420 |
| cctcatcttc | ttcctggagc | tggcaacagg | gatcttgccc | ttcgtattca | aggactggat | 480 |
| tcgagaccag | ctcaatttct | tcattaacaa | caacgtcaag | gcctatcggg | atgacattga | 540 |
| cctccagaac | ctcattgact | ttgctcagga | atattgggtct | tgctgcggag | cccagagggcc | 600 |
| taatgactgg | aacctcaata | tctatttcaa | ctgcactgac | ttgaacccga | gccgagagcg | 660 |
| ctgcgggggtg | cccttctcct | gctgtgtcag | ggaccctgcg | atgtcctcaa | caccagtggt | 720 |
| ggctatgatg | tccggctcaa | actggagctg | gagcagcagg | gctccataca | caccaaaggc | 780 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tgtgtggggcc | agtttgagaa | gtggctgcag | gacaacctga | tctgtggtggc | tgggggtcttt | 840 |
| gtgggcatcg | ctctcctcca | gatctttggt | atctgcctgg | cccagaacct | tgtgagtgac | 900 |
| atcaaggcag | tgaaggccaa | ctggatcaaa | catgatgatg | gctacaaact | actcaaataa | 960 |
| acaaaacctt | gaaaaccact | ggcttacgcc | caccatctca | gagggttccat | gggccgcagg | 1020 |
| gcctcagccg | tgcgcgtctgc | ctggggcccc | agcccagacc | caccctgcc | acatgttttc | 1080 |
| ttggcctggg | tagtacatac | gatgagccaa | cccttaaaac | ttggcatatt | tcatgtaaaa | 1140 |
| gtccagatcg | ccagcatctt | gtgaagaatg | gccatccggc | cacagcggct | ctctetatggc | 1200 |
| ttcgtctcct | gggagtgtgcg | cttcctgttc | tctgagggac | ccaccctcac | ccgtgtcctg | 1260 |
| cctgcctgac | cctggaggct | gggagctggc | ctcctccacc | tctgcaagtt | tttcccctgc | 1320 |
| aaatgctgca | aggctgctgt | gggccaagcc | cggatcgaag | cctggagcgt | gaagaattgg | 1380 |
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| ccaagatggg | tgccaccgtg | cccaggagag | tggccggagg | gtgggatgga | gatcaggaag | 1500 |
| gttttgggca | ggacgtagct | ggaagcctga | gcttgtcacc | catggggatg | gggagagccc | 1560 |
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| gtctgccttt | cctaggacaa | ccccaccag | tacagccctg | tgcctggtgt | gtccaccctg | 1740 |
| cttactagtt | ctttgggttt | catggaattt | acaagcttct | aaaggagcag | agtggctcag | 1800 |
| attgggggaag | cctggcagct | gttctcagat | ctgcacaaag | cgggtgtgtg | ggagtatttg | 1860 |
| tgaatcaaa | gagaggtttg | gcctagtgcc | cagtctttta | acttagatgc | cctcagggcc | 1920 |
| gggtgggtta | taaaaataaa | gtaggccttt | gagctgtgag | gcctttggga | ctttaatttt | 1980 |
| tcccactatt | cctggagatg | ggacatctg | agacattgct | ttgtgctgag | aaatactttg | 2040 |
| atgattgagt | ctgagtcgct | aagggcaact | ggccttgagt | gacatcaagg | gggtggtggg | 2100 |
| actgtggcaa | accacagatt | cccacctgaa | attggtggct | gtccttccgt | tgggggcta | 2160 |
| ggctgtacag | cgagaatgta | ggtaggctctg | tctaattggga | gaagtctgga | gaagccaaga | 2220 |
| agctagattt | ttcatgtgaa | ctatcccag | ttttaagttg | tttgacgcta | atgagaaaaa | 2280 |
| cctcttaaac | cctgatagtc | aaaagggtgtg | ggggccatct | ttgacacctc | ccccaccata | 2340 |
| ggtccctcag | ggacagtgcc | ccatggggagc | cctggtgagt | ccacggttca | ggaatgctgg | 2400 |
| gaactgctgc | agggtggcgg | gttgtggggc | agcaccctac | gtggctccca | ggtgtgggct | 2460 |
| gggtggtgct | atgggtgggc | tctacatgct | acaataaatg | gggctcatga | taaaaaaaaa | 2520 |
| aaaaaaaaaa | aaaaaaaaa | | | | | 2538 |

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<212> DNA

 $\langle 400 \rangle \quad 3$

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| tcttacagtg | tattcagaat | tatgtgaatt | aggattctct | ttaatgtaga | atgcaatttt | 1500 |
| aattattggc | ttaatagctt | aaaatgaaca | gtcttaaaca | gtcttgcaaa | ttctttgtct | 1560 |
| tggaagctgg | gaactgttca | atctctggaa | cagtggcat | aggatagtct | cattaatcat | 1620 |
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<400> 4

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Lys | Tyr | Phe | Leu | Phe | Gly | Phe | Asn | Ile | Val | Phe | Trp | Val | Leu | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Ala | Leu | Phe | Leu | Ala | Ile | Gly | Leu | Trp | Ala | Trp | Gly | Glu | Lys | Gly | Val |
| | | | 35 | | | | 40 | | | | | 45 | | | |
| Leu | Ser | Asn | Ile | Ser | Ala | Leu | Thr | Asp | Leu | Gly | Gly | Leu | Asp | Pro | Val |
| | 50 | | | | | 55 | | | | 60 | | | | | |
| Trp | Leu | Phe | Val | Val | Val | Gly | Gly | Val | Met | Ser | Val | Leu | Gly | Phe | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Gly | Cys | Ile | Gly | Ala | Leu | Arg | Glu | Asn | Thr | Phe | Leu | Leu | Lys | Phe | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Ser | Val | Phe | Leu | Gly | Leu | Ile | Phe | Phe | Leu | Glu | Leu | Ala | Thr | Gly | Ile |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Leu | Ala | Phe | Val | Phe | Lys | Asp | Trp | Ile | Arg | Asp | Gln | Leu | Asn | Phe | Phe |
| | | | 115 | | | | 120 | | | | | 125 | | | |
| Ile | Asn | Asn | Asn | Val | Lys | Ala | Tyr | Arg | Asp | Asp | Ile | Asp | Leu | Gln | Asn |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | Ile | Asp | Phe | Ala | Gln | Glu | Tyr | Trp | Ser | Cys | Cys | Gly | Ala | Arg | Gly |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Pro | Asn | Asp | Trp | Asn | Leu | Asn | Ile | Tyr | Phe | Asn | Cys | Thr | Asp | Leu | Asn |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Pro | Ser | Arg | Glu | Arg | Cys | Gly | Val | Pro | Phe | Ser | Cys | Cys | Val | Arg | Asp |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Pro | Ala | Met | Ser | Ser | Thr | Pro | Ser | Val | Ala | Met | Met | Ser | Gly | Ser | Asn |
| | | | 195 | | | | 200 | | | | | 205 | | | |
| Trp | Ser | Trp | Ser | Ser | Arg | Ala | Pro | Tyr | Thr | Pro | Lys | Ala | Val | Trp | Ala |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Ser | Leu | Arg | Ser | Gly | Cys | Arg | Thr | Thr | | | | | | | |
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<212> PRT
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Ile Gly

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<213> Homo sapiens

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<213> Homo sapiens

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